

## 한국인 관상동맥질환의 위험인자

서 홍 석 · 오 동 주

### Risk Factors of Atherosclerotic Coronary Artery Disease in Korean People

Hong Seog Seo, MD, PhD and Dong Joo Oh, MD, PhD

Department of Internal Medicine, Korea University Guro Hospital, College of Medicine,  
Korea University, Seoul, Korea

가 . , foam cell

p849 참조

가

가 , “ ”

가 “

가 가

가 가

가 Virchow<sup>1)</sup> 40

Axchoff<sup>2)</sup> lipid hypothesis ,

Rokitansky<sup>3)</sup> Thrombogenic Hypothesis , 가

Chisolm<sup>4)</sup> Mesenchymal Hypothesis , Ben -

: , 152 - 050 80

: (02) 818 - 6634 · : (02) 837 - 1966

E - mail : mdhsseo@unitel.co.kr

가?

가

early lesion fatty streak

1 10

15 20

, Glagov 가 7) 40%

1981 Hopkins Williams

264가 8) 1995 2 Bet -

atheroma esda conference

가 (vascular remodeling) 가

가

가 LDL , /

가 2

가

(erosion) (rupture) , physical inactivity, HDL

cholesterol , small dense LDL,

가 3 가

가

가 (psychosocial factors), lipoprotein

a), homocysteine, oxidative stress,

가 4 가

가 가 가

가

Park 10)

olipoprotein A1 , ap -

cross - sectional study

parameter 가

study population , ,

가 apolipoprotein A1,

lipoprotein(a)

apolipoprotein A1, lipoprotein(a)

가

가 Berg <sup>18)</sup>  
가 1970  
lipoprotein 가 <sup>19-21)</sup>  
1987 가 apolipoprotein(a)  
가 plasminogen <sup>22)</sup> plasminogen  
가  
esterogen <sup>11)</sup> 가  
, liopoprotein(a)  
lipoprotein(a)가  
, prostacyclin apoliporotein(a)  
가 , throxane endothelin - 1 , plasminogen 가  
endothelin . fibrinogen 가 <sup>23)</sup>  
PAI - 1(plasmino - gen activator inhibitor - 1)  
, plasminogen insulin 가 , lipoprotein(a)가 <sup>24)</sup> lipop -  
oxygen free otein(a)  
antithrombin III apolipoprotein (a)  
radical , factor VII X . 35 가 <sup>25)</sup> lipoprt -  
<sup>12)</sup> 가 가 <sup>26)</sup>  
lipoprotein(a)  
<sup>13)</sup> 가  
<sup>14)</sup> 가  
<sup>15)</sup> 가 <sup>16)</sup> 1998 8  
10 international vascular biol -  
gy meeting acute  
phase reaction  
가  
가  
<sup>16)</sup> Factor V Leiden 가  
(plaque rupture)  
(erosion)  
가 <sup>17)</sup> Lipoprotein(a)  
가  
1963 Kare 가

candidate gene analysis  
가 genome - wide search 가  
.27) Candidate gene analysis  
gene  
Park 가  
가  
genome - wide search allele - sharing  
method , linkage disequilibrium  
가  
가

## REFERENCES

- 1) Virshow R. *Gesammelt Abhandlungen zur Wissenschaftlichen Medicin*. Frankfurt: Meidinger John & Co;1859. p.496.
- 2) Aschoff L. In: *Lectures on pathology*. New York: Inc. 1924;131:153.
- 3) Rokitsky C von. *A manual of pathological anatomy, translated by Dan GE*. London: The Sydenhams Society; 1852.
- 4) Chisolm GM, DiCarleto PE, Erhart LA, et al. *Pathogenesis of atherosclerosis in peripheral vascular diseases*. In: Young JR, Graor RA, Olin JW, Bartholomew JR (eds). *St. Louis: Mosby year book*;1991. p.137.
- 5) Benditt EP, Benditt JM. *Evidence for a monoclonal origin of human atherosclerotic plaques*. *Proc Natl Acad Sci USA* 1973;70:1753.
- 6) Ross R, Glomset JA. *The pathogenesis of atherosclerosis*. *N Eng J Med* 1976;295:369.
- 7) Glagov S, Weisenberg E, Zarins CK, Stankunavicius R, Kolettis GJ. *Compensatory enlargement of human atherosclerotic coronary arteries*. *N Eng J Med* 1987;316: 1371.
- 8) Hopkins PN, Williams RR. *A survey of 246 suggested coronary risk factors*. *Atherosclerosis* 1981;40:1.
- 9) Fuster V, Pearson TA, 17th Nethesda Conference. *Matching the intensity of risk factor management with the hazard for coronary heart disease evnets*. *J Am Coll Cardiol* 1996;27:957.
- 10) Park HS, Kim YS, Min WK, Lee CH, Park SW, Park SJ. *A Case-Control Study on the Risk Factors for Coronary Artery Disease among Korean*. *Korean Circ J* 1998;28: 849-62.
- 11) Vogel RA, Corretti MC. *Estrogens, progestins, and heart disease: Can endothelial function divine the benefit?* 1998; 97:1223.
- 12) Lobo RA. *Hormons, hormone replacement therapy, and heart disease*. In: Douglas PS, ed. *Cardiovascular health and disease in women*. Philadelphia: WB Saunders;1993. p.153-74.
- 13) Sullivan AK, Holdright DR, Wright CA, Sparrow JL, Cunningham D. *Chest pain in women: Clinical, investigative, and prognostic features*. *BMJ* 1994;308:883.
- 14) Wang XL, Tam C, McCredie RM, Wilcken DEL. *Determinants of severity of coronary artery disease in Australian men and women*. *Circulation* 1994;89:1974.
- 15) Criqui MH, Heiss G, Cohn R, et al. *Plasma triglyceride level and mortality from coronary heart disease*. *N Eng J Med* 1993;328:1220.
- 16) Douglas PS, Ginsburg GS. *The evaluation of chest pain in women*. *N Eng J Med* 1996;334:1311.
- 17) Burke AP, Farb A, Malcom GT, Liang YH, Smialek J, Virmani R. *Coronary risk factors and plaque morphology in men with coronary disease who died suddenly*. *N Eng J Med* 1997;336:1276.
- 18) Berg K. *A new serum type system in manthe Lp system*. *Acta Pathol Microbiol Scand* 1963;59:369.
- 19) Dahlen G, Reicson C, Furberg C. *Angina of effort and an extra pre-beta lipoprotein fraction*. *Acta Med Scand* 1972;533 (Suppl):6.
- 20) Papadopoulos MN, Bedynek JL. *Serum lipoprotein patterns in patients with coronary atherosclerosis*. *Clin Chim Acta* 1973;44:153.
- 21) Insull W, Najmi M, Bloedman DA. *Plasma pre-beta lipoprotein subfractions in diagnosis of coronary artery disease*. *Circulation* 1972;45 (Suppl):170.
- 22) Eaton DL, Fless GM, Kohr WJ, McLean JW, Xu Q-T, Miller CG, et al. *Partial amino acid sequence of apolipoprotein (a) shows that it is homologous to plasminogen*. *Proc Natl Acad Sci USA* 1987;84:3224.
- 23) Seo HS, Oh DJ, Lee EM, Han SH, Park HN, Lim DS, et al. *Relationship between Lp (a) and parameters of thrombosis and thrombolysis*. *Korean J Int Med* 1996;51:1.
- 24) Yano Y, Shimokawa K, Okeda Y, Noma A. *Immunolocalization of lipoprotein (a) in wounded tissues*. *J Histochem Cytochem* 1997;45:559.
- 25) Seo HS, Oh DJ, Lee EM, Jin DK, Park CG, Park HN, et al. *Significance of lipoprotein (a) in the atherosclerotic vascular diseases in Korean people (in press) the 10th international vascular biology meeting, 1998, Cairns, Australia*.
- 26) Ridker PM, Hennekens CH, Stampfer MJ. *A prospective study of lipoprotein (a) and risk of myocardial infarction*. *JAMA* 1993;270:2195.
- 27) Marian AJ. *Genetic risk factors for myocardial infarction*. *Current Opinion in Cardiol* 1998;13:171.